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## College Physics Problems And Solutions

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Each equation contains four variables. The variables include acceleration ( $a$ ), time ( $t$ ), displacement ( $d$ ), final velocity ( $v_f$ ), and initial velocity ( $v_i$ ). If values of three variables are known, then the others can be calculated using the equations. This page demonstrates the process with 20 sample problems and accompanying solutions.

## Kinematic Equations: Sample Problems and Solutions

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Substituting the values in the above given formula,  $Work = 15 \times 0.7 = 10.5 \text{ J}$  Therefore, the value of Work is 10.5 J..

Example 2: Refer the below work physics problem with solution for a boy who uses a force of 30 Newtons to lift his grocery bag while doing 60 Joules of work.

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